

## Abstract

An apparatus for culture is provided, which apparatus enables to increase the ratio of a culture medium solution to the number of cells while keeping the density of the cells at a high level and diminishing the absolute number of the cells. The apparatus comprises a container having at least one concave part and at least one member (x) selected from the group consisting of a gelatinous material, a sponge material, and a mesh material, wherein the member (x) is placed within the concave part of the container, has at least one hollow by which a part or parts of a surface of the container in the concave part is bared, and holds a solution containing culture medium components.

Further, processes for preparing the apparatus, culturing methods that use the apparatus, a method for studying or observing an influence of a substance to be examined on cells or a piece of a tissue, a kit for making the apparatus, and a flat substrate for culture are provided.

According to the present invention, it becomes possible to culture cells or the like for a longer period of time under good conditions.